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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,038	02/01/2000	Masahiro Kato	914-108	5618

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EXAMINER

DAVIS, TEMICA M

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 05/10/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/496,038

Applicant(s)

KATO

Examiner

Temica M. Davis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2004.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 5-20 are is/are allowed.
6) ☒ Claim(s) 1-4 and 21-29 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4, and 21-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Braisted et al (Braisted), U.S. Patent No. 4,847,862.

Regarding claims 1, 21 and 26 Braisted discloses a satellite broadcasting receiver receiving a signal radio wave from a broadcasting satellite, comprising: first to nth (where n is an integer equal to or larger than 2) amplifiers respectively amplifying first to nth signals extracted from said signal radio wave; a connection node supplied with outputs from said first to nth amplifiers; and a power supply control circuit controlling said first to nth amplifiers to set a current flowing through one of said first to nth amplifiers at a prescribed value and set currents flowing through all the other amplifiers at 0 such that an output from said one amplifier is transmitted through said connection node (col. 3, line 58-col. 4, line

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16), wherein the first to n th signals are provided to the first to n th amplifiers through respective first to n th signal input lines, the first to n th signal input lines not being connected to a common connection node (figure 1).

Regarding claim 2, Braisted discloses the satellite broadcasting receiver according to claim 1, further comprising a $(n+1)$ th amplifier for amplifying an output transmitted from said connection node (col. 3, line 38-col. 4, line 16).

Regarding claim 3, Braisted discloses the satellite broadcasting receiver according to claim 2, wherein each of said first to $(n+1)$ th amplifiers includes a high electron mobility transistor (col. 3, lines 54-58).

Regarding claim 4, Braisted discloses the satellite broadcasting receiver according to claim 2, further comprising a frequency converting circuit converting an output from said $(n+1)$ th amplifier to an intermediate frequency signal (col. 3, lines 64-68, col. 5, lines 22-33).

Regarding claim 23, Braisted discloses the satellite broadcasting receiver according to claim 21, further comprising a $(n+1)$ th amplifier for amplifying an output transmitted from said connection node (col. 5, lines 45-53).

Regarding claim 24, Braisted discloses the satellite broadcasting receiver according to claim 23, wherein each of said $(n+1)$ th amplifiers includes a high electron mobility transistor (col. 3, lines 54-58).

Regarding claim 25, Braisted discloses the satellite broadcasting receiver according to claim 23, further comprising a frequency converting circuit converting an output from said $(n+1)$ th amplifier to an intermediate frequency signal (col. 7, lines 8-14).

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Regarding claim 27, Braisted discloses the satellite broadcasting receiver according to claim 26, further comprising a (n+1)th amplifier for amplifying an output transmitted from said connection node (col. 3, line 58-col. 4, line 16).

Regarding claim 28, Braisted discloses the satellite broadcasting receiver according to claim 27, wherein each of said first to (n+1)th amplifiers includes a high electron mobility transistor (col. 3, lines 54-58).

Regarding claim 29, Braisted discloses the satellite broadcasting receiver according to claim 27, further comprising a frequency converting circuit converting an output from said (n+1)th amplifier to an intermediate frequency signal (col. 3, lines 64-68, col. 5, lines 22-33).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Braisted in view of Tweedy et al (Tweedy), U.S. Patent No. 6,597,670.

Regarding claim 22, Braisted discloses the satellite broadcasting receiver according to claim 21 as described above. Braisted, however, fails to disclose wherein one of the first to nth signals comprises a horizontal polarization

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component of the signal radio wave and another of the first to nth signals comprises a vertical polarization component of the signal radio wave.

Tweedy discloses this limitation (col. 3, lines 56-64).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Braisted with the teachings Tweedy, and such configuration is known to reduce interference.

Allowable Subject Matter

6. Claims 5-20 are allowed.
7. The following is a statement of reasons for the indication of allowable subject matter: Prior art fails to suggest or render the configuration of a broadcast receiver as described in independent claims 5, 11, 14, 15, 17 and 18.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The examiner can normally be reached Monday-Friday (alternate Fridays) from 9:00am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Erika Gary can be reached on (703) 308-0123. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temica M. Davis
Examiner
Art Unit 2681

May 3, 2004



TEMICA M. DAVIS
PATENT EXAMINER